Waukesha 4-H Project Guide



Category: STEM (Science Technology Engineering Math) 4/2021

4-H Project	Subprojects under this project
Model	•
Rocketry	
NOCKELI Y	
Things you might learn in this project:	 How to build a model rocket Learn parts of a rocket Learn aerodynamics and engine principles
	 Learn about basic physics like pitch, yaw, and roll; drag; trajectory; thrust; aerodynamics, principles of flight; etc Learn about model rocket safety
Learning activities/ workshops/ field trip ideas:	 Group rocket building activity Go to a science museum (Discovery World) Watch rocket related movies and videos Visit a local rocket club
	 Attend 4-H Space Camp Participate in the annual 4-H Rocket Launch
Ideas of things you might exhibit in the fair:	 Flying Launched Model Rocket in Rocket Launch Flying Remote Control Model Aircraft in Rocket Launch Independently flown model Rocket (Rockets flown at Rocket Launch excluded) Independently flown Remote Controlled (RC) Aircraft Poster explaining some principle of rocketry Poster explaining a real life experience of rocketry Photos taken during flight of Rocket, RC Aircraft (Rockets flown at
Waukesha County Project Leaders:	Rocket Launch excluded). • Flash Gordon, flash rescue31@hotmail.com, 262-544-0405
References & Resource links:	 https://4h.extension.wisc.edu/opportunities/projects/stem/aerospace-project/ https://fyi.extension.wisc.edu/wi4hprojects/stem-science-technology-engineering-math/aerospace/ https://www.nar.org/educational-resources/4-h-partnership/ https://www.nar.org/model-rocket-info/ https://estesrockets.com/ https://estesrockets.com/New-to-Model-Rocketry https://estesrockets.com/get-started/ https://www.grc.nasa.gov/www/k-12/rocket/rktparts.html